

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/474,980DATE: 04/24/2000
TIME: 14:53:52*(First 5 Pages Attached)*

INPUT SET: S35372.raw

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: JOHNSON, EUGENE M
MILBRANDT, JEFFREY D
KOTZBAUER, PAUL T
LAMPE, PATRICIA A
KLEIN, ROBERT
DESAUVAGE, FRED

ENTERED

(ii) TITLE OF INVENTION: PERSEPHIN AND RELATED GROWTH FACTOR

(iii) NUMBER OF SEQUENCES: 239

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: HOWELL & HAERKAMP, L.C.
(B) STREET: 7733 FORSYTH BOULEVARD, SUITE 1400
(C) CITY: ST. LOUIS
(D) STATE: MO
(E) COUNTRY: USA
(F) ZIP: 63105

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/09/474,980
(B) FILING DATE:
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/931,858
(B) FILING DATE:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: HOLLAND, DONALD R.
(B) REGISTRATION NUMBER: 35,197
(C) REFERENCE/DOCKET NUMBER: 971486

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 314-727-5188
(B) TELEFAX: 314-727-6092

(2) INFORMATION FOR SEQ ID NO:1:

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51 (i) SEQUENCE CHARACTERISTICS:
52 (A) LENGTH: 102 amino acids
53 (B) TYPE: amino acid
54 (C) STRANDEDNESS:
55 (D) TOPOLOGY: linear
56
57 (ii) MOLECULE TYPE: protein
58
59
60
61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
62
63 Ala Arg Leu Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg
64 1 5 10 15
65
66 Val Ser Glu Leu Gly Leu Gly Tyr Ala Ser Asp Glu Thr Val Leu Phe
67 20 25 30
68
69
70
71 Arg Tyr Cys Ala Gly Ala Cys Glu Ala Ala Ala Arg Val Tyr Asp Leu
72 35 40 45
73
74 Gly Leu Arg Arg Leu Arg Gln Arg Arg Arg Leu Arg Arg Glu Arg Val
75 50 55 60
76
77 Arg Ala Gln Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser
78 65 70 75 80
79
80 Phe Leu Asp Ala His Ser Arg Tyr His Thr Val His Glu Leu Ser Ala
81 85 90 95
82
83 Arg Glu Cys Ala Cys Val
84 100
85
86 (2) INFORMATION FOR SEQ ID NO:2:
87
88 (i) SEQUENCE CHARACTERISTICS:
89 (A) LENGTH: 100 amino acids
90 (B) TYPE: amino acid
91 (C) STRANDEDNESS:
92 (D) TOPOLOGY: linear
93
94 (ii) MOLECULE TYPE: protein
95
96
97
98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
99
100 Pro Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser

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```
101      1          5          10          15
102
103      Glu Leu Gly Leu Gly Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr
104                  20          25          30
105
106      Cys Ala Gly Ala Cys Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu
107                  35          40          45
108
109      Arg Arg Leu Arg Gln Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala
110                  50          55          60
111
112      His Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu
113      65          70          75          80
114
115      Asp Val His Ser Arg Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu
116                  85          90          95
117
118      Cys Ala Cys Val
119                  100
120
```

121 (2) INFORMATION FOR SEQ ID NO:3:

122 (i) SEQUENCE CHARACTERISTICS:

- 124 (A) LENGTH: 16 amino acids
- 125 (B) TYPE: amino acid
- 126 (C) STRANDEDNESS:
- 127 (D) TOPOLOGY: linear

128 (ii) MOLECULE TYPE: peptide

131 (ix) FEATURE:

- 133 (A) NAME/KEY: Modified-site
- 134 (B) LOCATION: 6
- 135 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"

137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

```
140      Ser Gly Ala Arg Pro Xaa Gly Leu Arg Glu Leu Glu Val Ser Val Ser
141      1          5          10          15
```

143 (2) INFORMATION FOR SEQ ID NO:4:

144 (i) SEQUENCE CHARACTERISTICS:

- 147 (A) LENGTH: 10 amino acids
- 148 (B) TYPE: amino acid
- 149 (C) STRANDEDNESS:
- 150 (D) TOPOLOGY: linear

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151
152 (ii) MOLECULE TYPE: peptide
153
154
155 (ix) FEATURE:
156 (A) NAME/KEY: Modified-site
157 (B) LOCATION: 1
158 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
159
160 (ix) FEATURE:
161 (A) NAME/KEY: Modified-site
162 (B) LOCATION: 6
163 (D) OTHER INFORMATION: /note= "SERINE OR CYSTEINE"
164
165
166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
167
168 Xaa Cys Ala Gly Ala Xaa Glu Ala Ala Val
169 1 5 10
170
171 (2) INFORMATION FOR SEQ ID NO:5:
172
173 (i) SEQUENCE CHARACTERISTICS:
174 (A) LENGTH: 23 amino acids
175 (B) TYPE: amino acid
176 (C) STRANDEDNESS:
177 (D) TOPOLOGY: linear
178
179 (ii) MOLECULE TYPE: peptide
180
181
182 (ix) FEATURE:
183 (A) NAME/KEY: Modified-site
184 (B) LOCATION: 1
185 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
186
187 (ix) FEATURE:
188 (A) NAME/KEY: Modified-site
189 (B) LOCATION: 2
190 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
191
192 (ix) FEATURE:
193 (A) NAME/KEY: Modified-site
194 (B) LOCATION: 17
195 (D) OTHER INFORMATION: /note= "GLUTAMINE OR GLUTAMIC ACID"
196
197
198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
199
200 Xaa Xaa Val Glu Ala Lys Pro Cys Cys Gly Pro Thr Ala Tyr Glu Asp

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201 1 5 10 15
202
203 Xaa Val Ser Phe Leu Ser Val
204 20
205
206 (2) INFORMATION FOR SEQ ID NO:6:
207
208 (i) SEQUENCE CHARACTERISTICS:
209 (A) LENGTH: 10 amino acids
210 (B) TYPE: amino acid
211 (C) STRANDEDNESS:
212 (D) TOPOLOGY: linear
213
214 (ii) MOLECULE TYPE: peptide
215
216
217
218 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
219
220 Tyr His Thr Leu Gln Glu Leu Ser Ala Arg
221 1 5 10
222
223 (2) INFORMATION FOR SEQ ID NO:7:
224
225 (i) SEQUENCE CHARACTERISTICS:
226 (A) LENGTH: 197 amino acids
227 (B) TYPE: amino acid
228 (C) STRANDEDNESS:
229 (D) TOPOLOGY: linear
230
231 (ii) MOLECULE TYPE: protein
232
233
234
235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
236
237 Met Gln Arg Trp Lys Ala Ala Ala Leu Ala Ser Val Leu Cys Ser Ser
238 1 5 10 15
239
240 Val Leu Ser Ile Trp Met Cys Arg Glu Gly Leu Leu Leu Ser His Arg
241 20 25 30
242
243 Leu Gly Pro Ala Leu Val Pro Leu His Arg Leu Pro Arg Thr Leu Asp
244 35 40 45
245
246 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
247 50 55 60
248
249 Pro Asp Ala Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg Pro
250 65 70 75 80